

Title (en)
Non-aqueous electrolyte secondary battery

Title (de)
Sekundärbatterie mit nichtwässrigen Elektrolyten

Title (fr)
Batterie secondaire à électrolyte nonaqueux

Publication
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Application
EP 05025373 A 20010330

Priority
• EP 01108177 A 20010330
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• JP 2000111044 A 20000412

Abstract (en)
[origin: EP1143549A2] A non-aqueous electrolyte secondary battery has a positive electrode having a positive electrode collector, on which a positive electrode active material layer containing a positive electrode active material as a complex oxide of Li and transition metals are formed, and a negative electrode having a negative collector, on which a negative electrode active material layer is formed. The non-aqueous electrolyte secondary battery is a gel or solid non-aqueous electrolyte secondary battery having a battery device in which a positive electrode and a negative electrode are laminated with an electrolyte layer therebetween in a film-state packaging member constructed by metal foil laminated films, and containing a lithium salt, a non-aqueous solvent, and a polymer material. The concentration in mass ratio of a free acid in the electrolyte layer is 60 ppm and less. Average particle diameter of the positive electrode active material lies in a range from 10 to 22 μm , the minimum particle diameter is 5 μm or larger, the maximum particle diameter is 50 μm or smaller, and specific surface of the positive electrode active material is 0.25 m^2/g or smaller. Lithium carbonate (Li_2CO_3) contained in the positive electrode active material is 0.15 percent by weight and less. Moisture contained in the positive electrode active material is 300 ppm and less. <IMAGE>

IPC 8 full level
H01M 4/131 (2010.01); **H01M 4/50** (2010.01); **H01M 4/505** (2010.01); **H01M 4/52** (2010.01); **H01M 4/525** (2010.01); **H01M 6/18** (2006.01); **H01M 6/22** (2006.01); **H01M 10/0525** (2010.01); **H01M 10/0565** (2010.01); **H01M 10/36** (2010.01); **H01M 50/119** (2021.01); **H01M 50/121** (2021.01); **H01M 50/124** (2021.01); **H01M 50/133** (2021.01); **H01M 50/141** (2021.01); **H01M 50/55** (2021.01); **H01M 50/557** (2021.01); **H01M 4/133** (2010.01); **H01M 4/1391** (2010.01); **H01M 4/1393** (2010.01); **H01M 4/62** (2006.01); **H01M 6/10** (2006.01); **H01M 6/16** (2006.01); **H01M 10/0567** (2010.01); **H01M 10/0587** (2010.01); **H01M 10/42** (2006.01)

CPC (source: EP KR US)
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